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Notice of Allowability	Application No.	Applicant(s)	
	09/823,263	MARVIN ET AL.	
	Examiner	Art Unit	
	Wills M Monique	1746	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGOT THE Office or upon petition by the applicant. See 37 CFR 1.313	OR REMAINS) CLOSED in to other appropriate commure GHTS. This application is su	this application. If not included nication will be mailed in due cou	ırse. <b>THIS</b>
1. This communication is responsive to the amendment filed L	<u> December 22, 2003</u> .		
2. The allowed claim(s) is/are 1,3-8 and 10-18.			
3. $\boxtimes$ The drawings filed on <u>23 July 2001</u> are accepted by the Exa	aminer.		
<ul> <li>4. ☐ Acknowledgment is made of a claim for foreign priority und</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have</li> <li>2. ☐ Certified copies of the priority documents have</li> <li>3. ☐ Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	been received. been received in Application	No	from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMETHIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the require	ements
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which gives			ICE OF
<ol> <li>CORRECTED DRAWINGS ( as "replacement sheets") must         <ul> <li>(a)  including changes required by the Notice of Draftsperso</li> <li>1)  hereto or 2)  to Paper No./Mail Date</li> <li>(b)  including changes required by the attached Examiner's Paper No./Mail Date</li> </ul> </li> <li>Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the</li> </ol>	n's Patent Drawing Review ( Amendment / Comment or in	n the Office action of drawings in the front (not the ba	ck) of
7. DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT F			the
Attachment(s)			
1. Notice of References Cited (PTO-892)		rmal Patent Application (PTO-15	52)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🔀 Interview Sun Paper No /M	nmary (PTO-413), ail Date	
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date</li> </ol>	), 7. ⊠ Examiner's A	mendment/Comment	;
4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's S	tatement of Reasons for Allowar	псе
of Biological Material	9.  Other		
	* .		

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## **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Fred Pruner on March 12, 2004.

The application has been amended as follows:

In claim 14, line 7: After "load through a diode", insert "a current sensor to indicate a current through a fuel cell stack of the fuel cell subsystem; and a circuit coupled to the current sensor to monitor cell voltages of said fuel cell stack, determine the minimum of the cell voltages and prevent the current from exceeding a maximum threshold current based on the minimum cell voltage".

In claim 15, line 9: After "based on the monitored power", insert "a current sensor to indicate a current through a fuel cell stack of the fuel cell subsystem; and a circuit coupled to the current sensor to monitor cell voltages of said fuel cell stack, determine the minimum of the cell voltages and prevent the current from exceeding a maximum threshold current based on the minimum cell voltage".

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## Examiner's Statement of Reasons for Allowance

The following is an examiner's statement of reasons for allowance: claims 1, 14 & 15 are allowable over the prior art or record, because the prior art is silent to a fuel cell system comprising: a fuel cell; supplemental power; and a circuit coupled to a current sensor to monitor cell voltages of said fuel cell stack, determine the minimum of the cell voltages and prevent the current from exceeding a maximum threshold current based on the minimum cell voltage.

Claim 8 is allowable over the prior art or record, because the prior art is silent to a method comprising: using a fuel cell stack to furnish power to a load, selectively connecting and isolating a battery to the load based on a response of the fuel cell stack; and preventing current of the fuel cell stack from exceeding a maximum threshold current based on the minimum cell voltage.

The remaining claims are allowable based on their dependency, directly or indirectly, to the independent claims above.

The prior art, such as Lacy et al. 6,428,917, teaches a fuel cell system comprising a fuel cell subsystem, battery and circuit to determine the minimum of the cell voltage. The reference does not anticipate the instant claims because it is silent to a first circuit adapted to selectively connect the battery to the load and isolate the battery from the load based on a response of the fuel cell subsystem change in power. The reference is not prior art for the purposes of 35 U.S.C. 103(a). More specifically, 35

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U.S.C. 103(a) states that subject matter developed by another which qualifies as prior art only under 102(e) is not applied as prior art provided that the subject matter and the claimed invention were commonly owned at the time the invention was made M.P.E.P. 2146. In the instant case, the subject matter disclosed in Lacy and the instant application were both owned by Plug Power, Inc. at the time the claimed invention was made. Applicant has provided a copy of the Notice of Recordation of Assignment, showing ownership of the present application by Plug Power Inc.

## Conclusions

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Monique Wills whose telephone number is (571) 272-1309. The Examiner can normally be reached on Monday-Friday from 8:30am to 5:00 pm.

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If attempts to reach Examiner by telephone are unsuccessful, the Examiner's supervisor, Randy Gulakowski, may be reached at 571-272-1302. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mw

03/12/04

Bruce Bell